

AMENDMENTS TO THE SPECIFICATION:

Amend the specification as follows:

Amend paragraph [0045], beginning at page 17, as follows:

[0045] Fig. 2 shows an enlarged schematic view of the photoconductive drum and the cleaning blade in the image-forming apparatus. The cleaning blade, used in the image-forming apparatus, shown in Fig. 1, touches the surface of the photoconductive drum from the opposite direction (in the counter direction) of the rotating direction of the photoconductive drum, with a certain intrusion depth d , with a certain set angle θ , as shown in Fig. 2. Here; the intrusion depth d denotes intruding depth of the blade measured along the perpendicular direction to the axis of the blade, assuming the tip of the blade intrudes into the photoconductive member without any transformation; and the set angle θ denotes the angle between the surface of the photoconductive member and the axis of the cleaning blade at the cross point of the photoconductive member and the cleaning blade. The intrusion depth d is in the range of 1.3 – 2.5 mm, preferably in the range of 1.4 – 2.3 mm, and more preferably in the range of 1.5 – 2.0 mm. If the depth d is beyond the range, the cleaning blade tends to twist; if below the range, cleaning tends to be defective. The set angle θ is preferably in the range of 20 – 30 °, more preferably in the range of 22 – 28 °, and most preferably in the range of 24 – 26°. If the angle is beyond the range, the cleaning blade tends to twist; if below the range, cleaning tends to be defective. The thickness of the tip of the cleaning blade is in the range of 1 – 2.5 mm, preferably in the range of 1.2 – 2.3 mm, and more preferably in the range of 1.4 – 2.1 mm. If the thickness is beyond the range, the cleaning blade tends to scrape the photoconductive member; if

U.S. Patent Application Serial No. 10/721,069
Response filed March 3, 2006
Reply to OA dated September 7, 2005

below the range, the cleaning blade tends to twist. The hardness (JIS-A) of the cleaning blade, measured according to JIS K 6301:1995, is in the range of 60 – 90, preferably in the of 65 – 80, and more preferably in the range of 68 – 75. If the hardness is beyond the range, the cleaning blade tends to scrape the photoconductive member; if below the range, the cleaning blade tends to twist. The cleaning blade 25 is made of rubber elastomer, such as polyurethane, acrylonitrile butadiene copolymer, and the like. The rebound resilience of the cleaning blade is preferably in the range of 30 – 70 %, and more preferably in the range of 40 – 70 %. If the value is below 70 %, the image-forming apparatus tends to have poor cleaning performance. The rebound resilience of the cleaning blade may be measured, for instance, according to Lupke method (JIS K 6255:1996). The rebound resilience can be controlled, for instance, by selecting vulcanization condition, such as a proportion of vulcanization agent in the rubber elastomer.

Amend paragraph [0064], beginning at page 25, as follows:

[0064] The toner of the present invention may be obtained by mixing a colored polymer particle, a external additive, and another optional particle, with a high speed mixer such as a ~~Henschel mixer~~ HENSCHEL MIXER.

Amend paragraph [0078], beginning at page 29, as follows:

[0078] 100 parts of thus obtained colored polymer, 1.0 part cube shaped calcium carbonate with volume average particle diameter of 0.3 μm (trade name: CUBE-03BHS, Dv/Dp:1.26, density: 2.6

U.S. Patent Application Serial No. 10/721,069
Response filed March 3, 2006
Reply to OA dated September 7, 2005

g/mL, product of Maruo Calcium Co., Ltd.), 0.5 part of fine silica particle with volume average particle diameter of 12 nm (trade name: RX-200, product of Nippon Aerosil Co., Ltd.) and 2.0 parts of fine silica particle with volume average particle diameter of 40 nm (trade name: RX-50, product of Nippon Aerosil Co., Ltd.) were mixed at 1,400 rpm for 10 minutes with a ~~Henschel mixer~~ HENSCHEL MIXER to obtain a toner. The printing properties and other properties of the obtained toner were evaluated. The results are shown in Table 1.

Amend paragraph [0081], beginning at page 30, as follows:

[0081] Comparative Example 2

The following materials were mixed and stirred with a Sand Stirrer to obtain a polymerizable composition:

100 parts of styrene;

35 parts of n-butyl methacrylate;

5 parts of methacrylic acid;

0.5 part of 2,2'-azobis(2,4-dimethylvaleronitrile);

3 parts of low molecular weight polypropylene (trade name: Viscol 605P, Sanyo Chemical Industries, Ltd.);

8 parts of carbon black (trade name: MA#8, product of Mitsubishi Chemical Corporation);

and

U.S. Patent Application Serial No. 10/721,069
Response filed March 3, 2006
Reply to OA dated September 7, 2005

3 parts of chromium complex salt dye (trade name: Aizen Spilon Black TRH, product of Hodogaya Chemical Co., Ltd.).

Then the resultant composition was subjected to polymerization reaction at 60 °C for 6 hours, in a aqueous solution of 6 weight/volume % gum arabic, with stirring at 4,000 rpm by means of a mixer (TK Auto Homo Mixer, product of Tokushu Kika Kogyo Co., Ltd.). After polymerization reaction, washed with ion exchanged water, dried, classified with wind force (blowing air), then a colored polymer particle with volume average particle diameter of 8 µm were obtained. Number ratio of the colored polymer particles having particle diameter not larger than 4 µm was 1.3 number %. Further the colored polymer particle was subjected to a surface treatment with a dispersion solution of a resin fine particle (a fine particle of fluorinated ethylene propylene copolymer, volume average particle diameter: 2 µm, product of Du Pont - Mitsui Fluorochemicals Co., Ltd.) dispersed sufficiently into a mixture of ethanol / water (volume ratio: 8/2) so that the proportion of the resin fine particle is 2.0 parts by weight per 100 parts by weight of the colored polymer particle. More specifically, the treatment was achieved by immersion method by means of a wet type surface reforming device (trade name: Disper Coat, product of Nissin Engineering Co., Ltd.) so that the resin fine particle adhered locally on the surface of the colored polymer particle. 100 parts of the thus obtained colored polymer particle and 0.3 part of a hydrophobicitized silica particle (trade name: R-974, volume average particle diameter: 12 nm, density: 2.2 g/mL, spherical shaped, product of Nippon Aerosil Co., Ltd.) were mixed at 1,500 rpm for 1 minute with a ~~Henschel mixer~~ HENSCHEL MIXER to

U.S. Patent Application Serial No. **10/721,069**

Response filed March 3, 2006

Reply to OA dated September 7, 2005

obtain a toner with volume average particle diameter of 8 μm . The printing properties and other properties of the obtained toner were evaluated in the same manner as in Example 1. The results are shown in Table 1.